



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,512	09/12/2003	Sen-Mei Cheng	BHT-3125-165	5672

7590 07/13/2004

TROXELL LAW OFFICE PLLC
SUITE 1404
5205 LEESBURG PIKE
FALLS CHURCH, VA 22041

EXAMINER

SAKRAN, VICTOR N

ART UNIT	PAPER NUMBER
----------	--------------

3677

DATE MAILED: 07/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/660,512

Applicant(s)

CHENG, SEN-MEI

Examiner

VICTOR N SAKRAN

Art Unit

3677

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C.

112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Because a method limitation within an article claim such as “ the shoelace disposed a tying section located into an upper and lower molds communicating with piping for rubber to injected therein “ as recited in claim 1, renders the claim indefinite. Clarification and appropriate correction is required.

It is a general rule that an article of manufacturing should not be defined by the process of making it; see In Re Scheckner 106 O. G. 765.

Furthermore, it is not clear if the article or the method is being claimed.

Moreover, Applicant is entitled to only one statutory class of invention in a claim.

The method of forming the device is not germane to the issue of patentability of the device itself. Therefore, the method limitation has not been given patentable weight.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-6, are rejected under 35 U.S.C. 103(a) as being unpatentable over Phillips U. S. Patent No. 5,638,589 in view of Chen U. S. Patent No. 6,167,599. Phillips discloses the general combination claimed of retaining ends of a shoelace, the shoelace having first and second ends (12,14) , each of said ends of the shoelace is provided with a plastic sleeve (16) which is made of a heat shrinkable material and is adapted to shrunk onto the end of the shoelace; see

Art Unit: 3677

Figures 1, 2; column 1, lines 45-50; column 2, lines 29-34, and claim 7, except that the patent to Phillips is silent about providing its retaining ends with color and the particular mounting of its retaining ends and the use of different materials to form its retaining ends. Chen discloses a transparent retaining ends of a shoelace, each of said retaining ends is provided with a light reflecting (color) tag plate, and said retaining ends are also provided with bead protrusions and are coated with adhesive glue to be secured to the end of the shoelace; see Figures 5-7; column 2, lines 10-20, 25-30, and claim 1. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the retaining ends of the shoelace in Phillips with any particular color, and the use of protrusions with adhesive glue in order to firmly securing its retaining ends to the shoelace in the manner taught, disclosed and suggested by Chen, especially, since such modification involves only routine skill in the art.

Applicant is reminded that in considering the disclosure of a reference, it is proper to take into account not only specific teaching of the reference but also the inferences which one skilled in the art would reasonably be expected to draw therefrom; see *In re Preda*, 401 F2d 825, 826, 159 USPQ 342,344 (CCPA1968).

As to the particular type of material used is considered to be no more than an obvious matter of design choice within the skill in the art, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. See *In Re Leshin*, 125 USPQ 416.

Art Unit: 3677


The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant's attention is directed to the art cited herein, as showing structure related to Applicant's disclosed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VICTOR N SAKRAN whose telephone number is 703-308-2224. The examiner can normally be reached on 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. J. swann can be reached on 703-308-4115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 8, 2004


VICTOR N SAKRAN
Primary Examiner
Art Unit 3677